

Attachment # 2

Date: November 19, 2004

Re: Abstract replacement.

Application number 10/711,333.
Drilling Cutting Analyzer System and methods of applications.

ABSTRACT

We disclose an apparatus and process for measuring the continuous flow of drilling cuttings in real time on surface while drilling. Using combination of methods and measurement apparatuses we obtaining the set of signals. **The apparatus** consists of the set of sensors that are placed around the analytical tube and main auger (sampling screw conveyor), obtained set of signals combination is related to the same formation with defined space-time shift. Sources of specific emissions or fields are also used.

The process consists of measuring the sample to obtain specific properties related to physical and petrophysical parameters of this formation (radiation, resistivity, inductivity, density, elasticity, others). Obtained signals are passed to signal conditioning and digitizer. Using computer data processing on data and applying the parametrical dependencies and functionalities one skilled in arts can derive the desired discrimination in target properties, as rock type, porosity, density, and oil saturation.

Regards,

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